



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/535,574

11/30/2005

Carl Binding

CH920020024US1

7879

54856

7590

07/03/2008

LOUIS PAUL HERZBERG  
3 CLOVERDALE LANE  
MONSEY, NY 10952

EXAMINER

SMITH, CREIGHTON H

ART UNIT

PAPER NUMBER

2614

MAIL DATE

DELIVERY MODE

07/03/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/535,574	<b>Applicant(s)</b> BINDING ET AL.	
	<b>Examiner</b> Creighton H. Smith	<b>Art Unit</b> 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 JUN '08.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) 2-29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is now 2 sentences long, a period falling at end of line 1 on page 3 of the amendment. A claim can only be 1 sentence long

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Willars et al in view of Carlsson and Engelhart and Miernik et al.

Willars et al disclose in col. 5, lines 17 et seq., a technique to provide a mobile phone a list of neighboring cells that are adapted to that specific mobile's subscription. In line 23 of col. 5 Willars et al disclose that a determination is first made that a target cell controlled by the drift node's controller should be prepared for a **handover**. The target cell is neighbored by other cells, with the mobile station being permitted to access radio resources or to **handover** to cells in one subset of cells but not permitted to handoff to other cells. A filtered list of cells is sent to the user equipment (UE) which only includes the cells which the radio network's controller will allow the UE to access. In lines 43 et seq., Willars et al disclose that the radio network's control node determines the allowed areas for the UE and also filters out the non-allowed cell areas, presumably those cell areas that would not support the UE's subscription requests. In col. 4, lines 28 et seq.,

Willars et al disclose that the radio network controller stores cell info for all cells it controls and all neighboring cells. The RNC's UTRAN will transmit to the mobile subscriber a list of channels for which the mobile is to measure the signal strength. The mobile station measures the signal strengths of transmissions received from each of the neighboring cells and reports the strongest ones, which become candidates for **handover**. Willars et al disclose a look-up table @ col. 6, lines 5-12, and in col. 5, lines 25-35 the controller determines which subset of cells to permit the mobile user to transition into.

Willars et al never specifically mention that the position of the E is ever made. However, Carlsson discloses in the Abstract that the position/location of the UE is to be determined based on timing advanced values. In P.0020 Carlsson discloses that if the timing advance values are available, the location of the mobile station 80 may be determined without the need for **GPS**. Therefore, Carlsson has readily admitted that GPS may also be used to determine a UE's position. To have provided Carlsson's teaching of determining a mobile station's location in Willars et al radio network would have been obvious to a person having ordinary skill in the art because both references are teaching 3<sup>rd</sup> generation services (3GPP) to a mobile user as the user is moving, or roaming, from one cell area to another. In P.0003 Carlsson discloses that a mobile terminal will contact a network via the base station in each cell before being instructed by the communications system to retune to the next base station. The only reason a mobile station would retune to another base station is if the signal is getting weak, and the only reason that a signal would be getting weak is if the UE is moving farther away

Art Unit: 2614

from the BS's transceiver, i.e., roaming, and thus necessitating a **handover** to another cell site and Base Station. Therefore, with both Willars et al and Carlsson teaching handovers from one mobile cell site to another, the skilled practitioner in the wireless arts would have found these references combinable. Common sense would dictate this substitution.

Willars et al also never discloses communicating the cost of services from a service/control node to a mobile user. However, Englehart does disclose in P.0006 that a subscriber can access services which are limited by the service plan to which the user subscribes. In P.0027 & P.0028 Englehart discloses that a service node 114 communicates to the mobile user 122 the capabilities and costs of the service node 114. To have provided Englehart's disclosure of a node communicating the cost of using the services of that particular provider in Willars et al communication system would have been obvious to a person having ordinary skill in these wireless arts because both references are teaching providing services to a roaming subscriber. Englehart specifically mentions "roaming" twice in P.0006.

Willars et al never specifically disclose a control node's processor measuring the current load or bandwidth of a particular sector before allowing a handoff. Miernik et al disclose a roaming mobile phone user. Col. 1, lines 27-42, and soft handoff of that mobile phone in col. 6, line 29. In col. 12, lines 30-44, Miernik et al disclose that a database 95 contains data regarding service nodes 61. Miernik goes on to disclose that when processor 92 attempts to select one of the serving nodes, the processor attempts to balance the load between the nodes 61 based on their respective capacities and/or

**current load.** The current load on a serving node may depend on CPU usage, memory usage, occupancy, **bandwidth usage**, or any other appropriate factor. To have provided Miernik's teaching of the control node's processor measuring the current load/bandwidth of a particular sector before allowing a handover into Willars et al would have been obvious to a person having ordinary skill in the art because if one wireless sector is filled to capacity with users requesting services it would be futile to cram other users into that sector because the QoS would be far less than if the user was placed in a sector where the load was less. Additionally, Miernik et al disclose roaming subscribers in col. 1, lines 27-29. Therefore, since all 4 references teach roaming mobile units, a skilled practitioner in these arts would have found these references combinable.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2614

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Creighton H. Smith at telephone number 571/272-7546.

01 JUL '08

/Creighton H Smith/  
Primary Examiner, Art Unit 2614